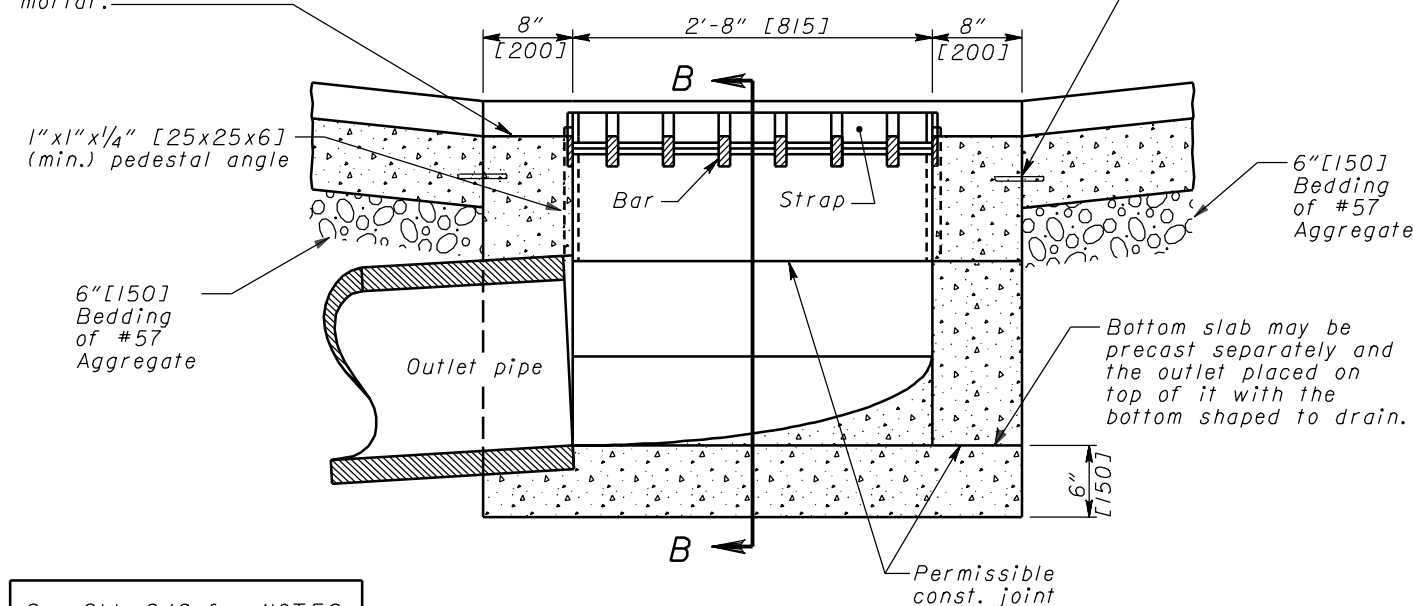
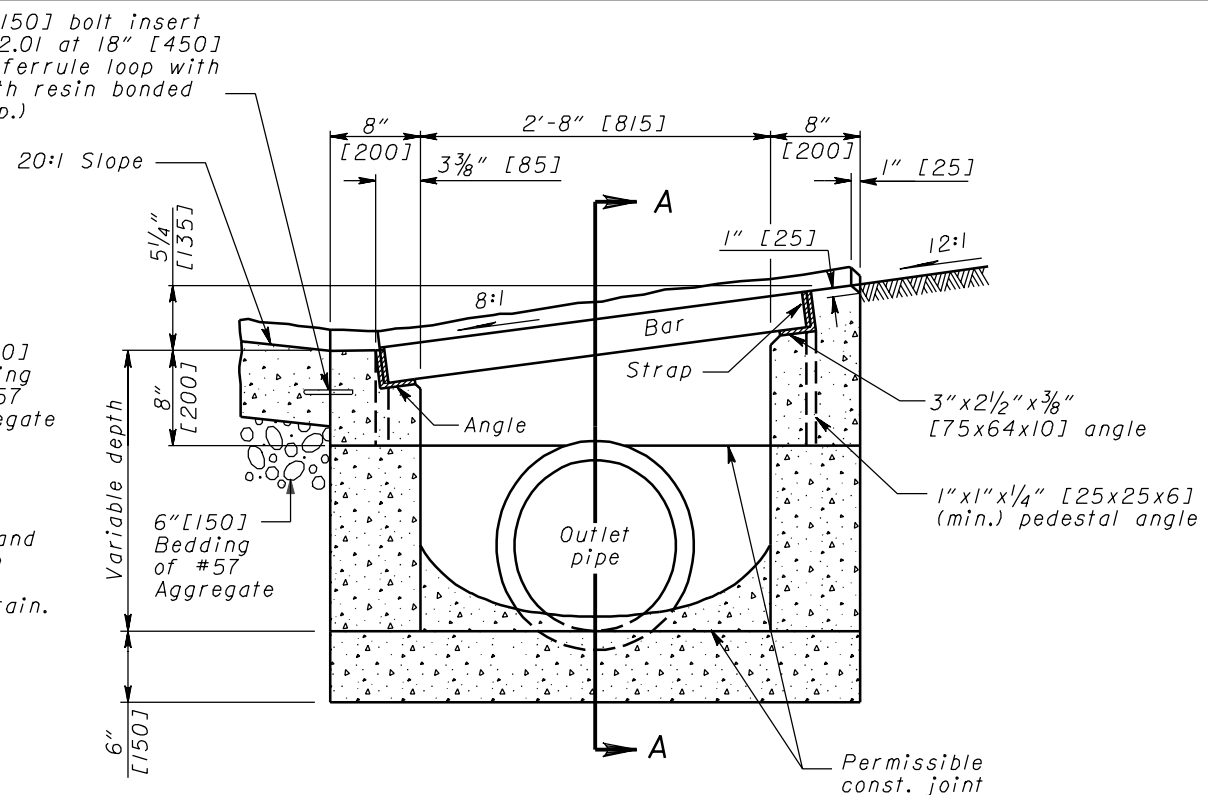


Upper box may be precast or cast-in-place (as shown). If precast, set in a bed of mortar.



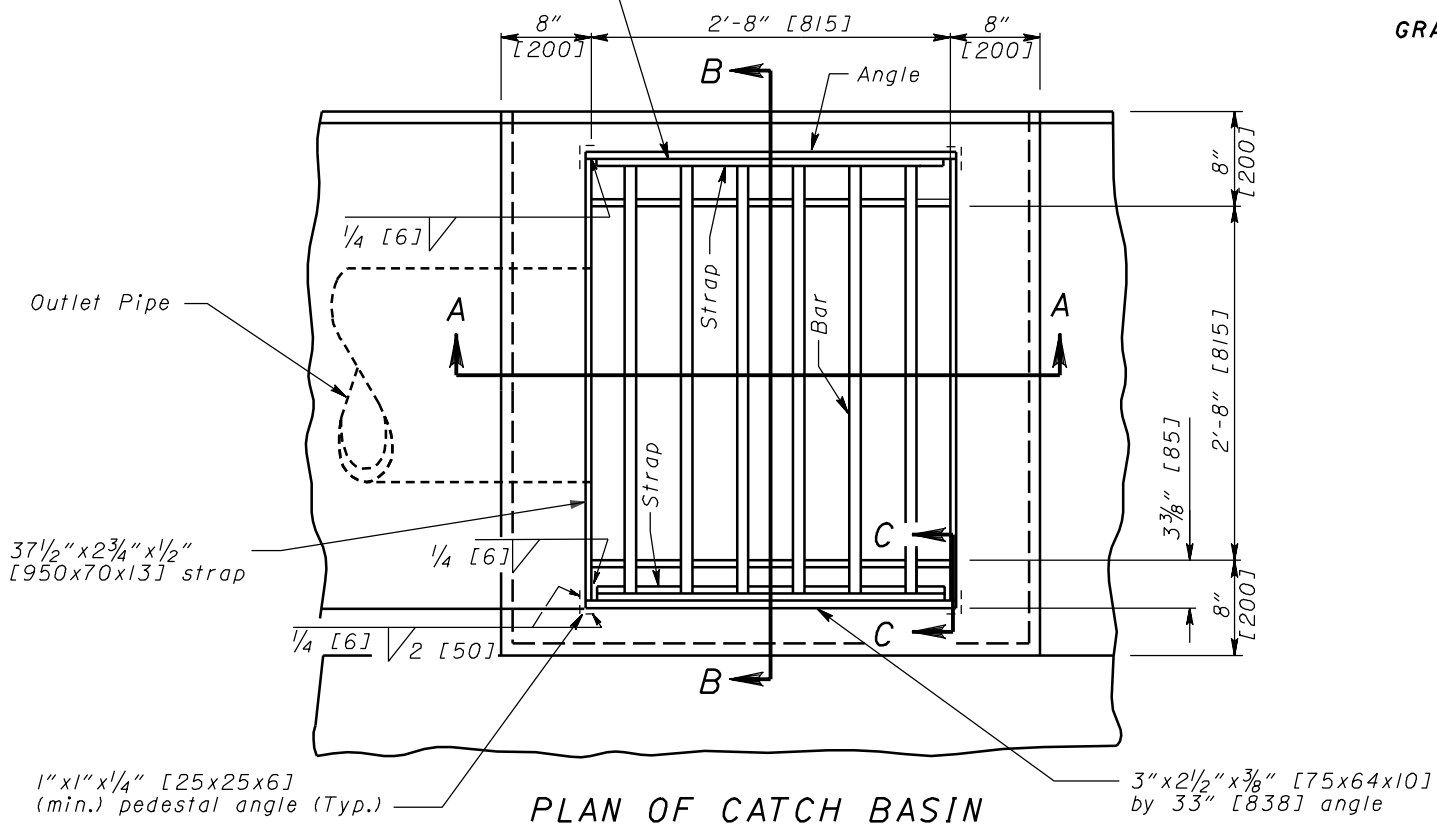
See Sht. 2/2 for NOTES

SECTION A-A

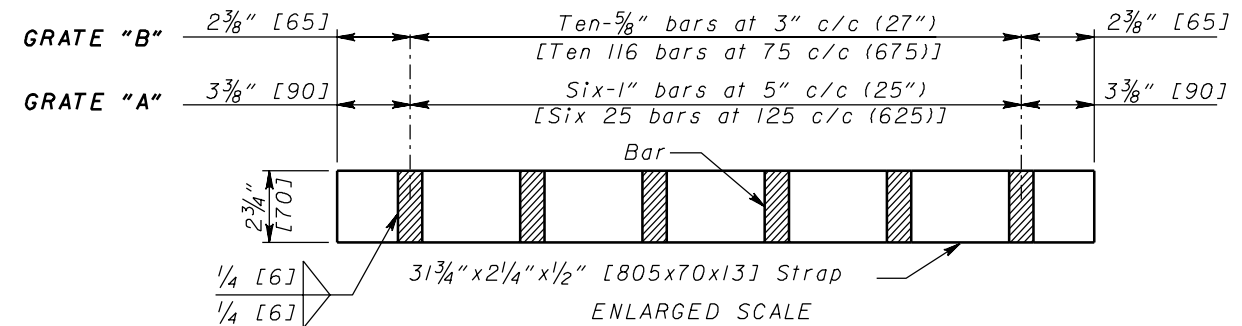


SECTION B-B

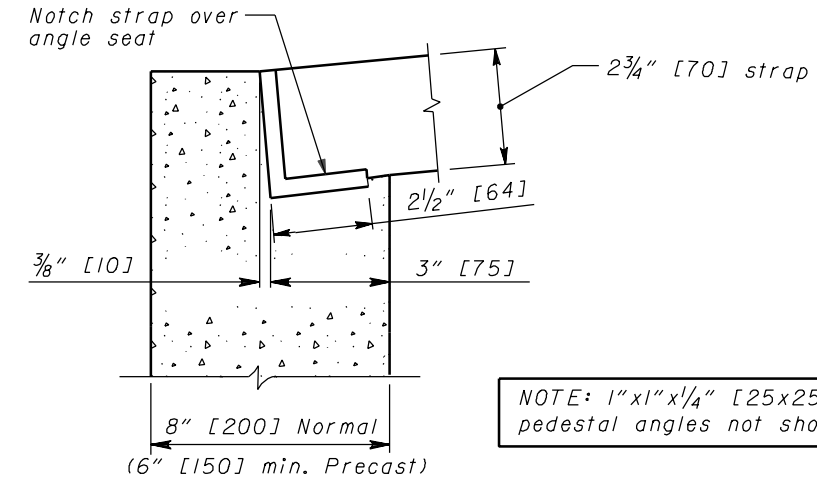
1/4" [6] min. clearance between grate and frame at upper edge



PLAN OF CATCH BASIN

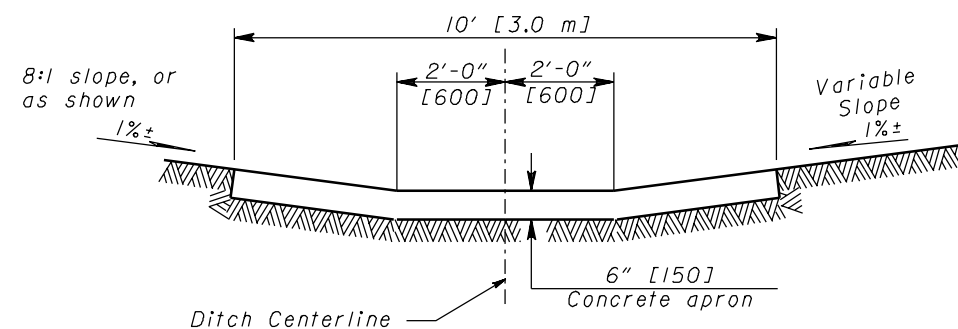
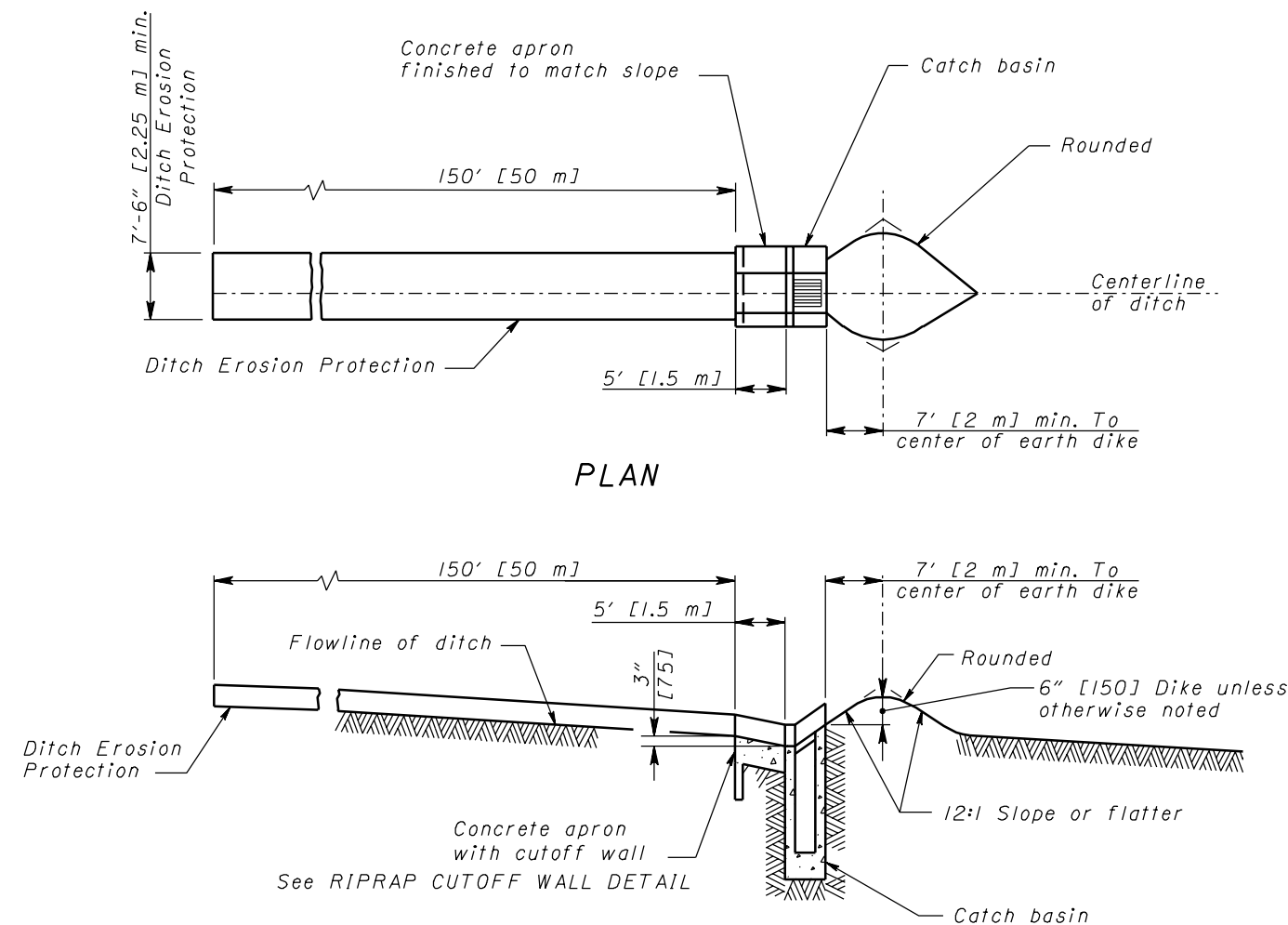


SECTION THRU GRATE

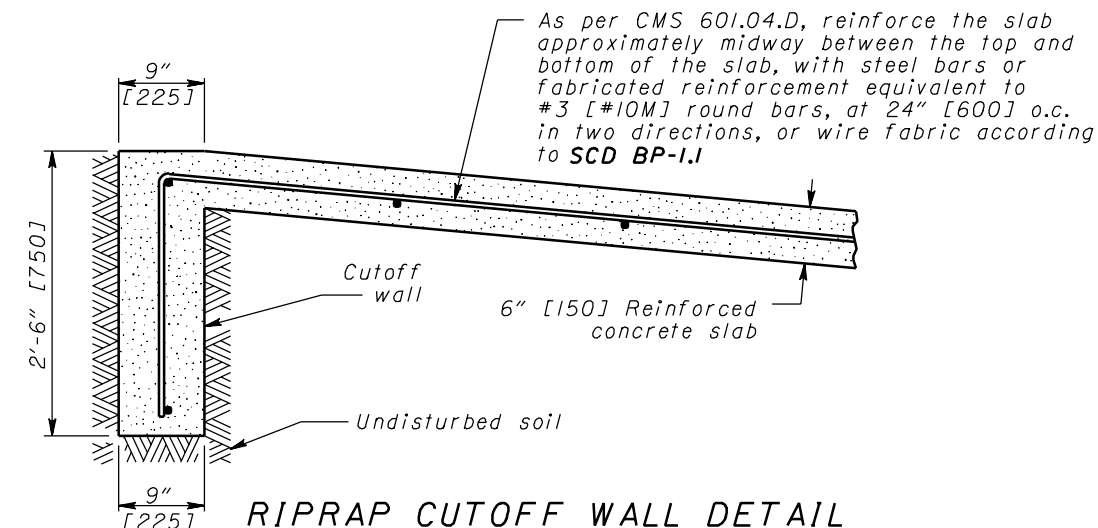


SECTION C-C

CATCH BASIN No. 5



CONSTRUCTION INFORMATION
Typical weight [mass] of grate = 185 lbs. [84 kg]
Typical weight [mass] of frame = 60 lbs. [27 kg]



## NOTES

**GRATE AND FRAME:** Shall be of structural steel in accordance with CMS 711.01 and 513. The design shall be essentially the same and equally as strong as the one shown.

**GRATE:** Shall be depressed 3" [75] below the upstream end of the concrete apron at the centerline of the ditch. Unless Grate "B" is specifically required by the plans, Grate "A" shall be furnished and installed.

**WALLS:** Brick or cast-in-place walls shall have a nominal thickness of 8" [200] from the bottom slab to the upper box.

**PRECAST CONSTRUCTION:** Permitted, except for the apron. Concrete shall meet the requirements of CMS 706.13. Precast walls shall have a minimum thickness of 6" [150] and reinforcing shall be sufficient to permit shipping and placement without damage. The wall thickness reduction shall be from the outside.

**STEPS:** Steps meeting the requirements of **SCD MH-1** shall be provided where the depth exceeds 6' [1.8 m].

**BASINS OVER 12 FEET [3.5 m] IN DEPTH:** Shall be precast or cast-in-place concrete; reinforced with #4 [#13M] bars on 12" [300] centers both vertically and horizontally with 2" [50] clearance from inside wall face.

**LOCATION AND ELEVATION:** When given on the plans, the location is the center of the grate. The elevation is the lowest point on the grate.

**OPENINGS:** Pipe openings shall be the outside diameter of the pipe being supplied plus 2" [50] when prefabricated or field cut. The interstitial space shall be filled with grout per CMS 601.

**CONCRETE APRONS:** Aprons are to be constructed in such a manner that the outside edges are at equal elevation.

If specified in the plans, grouted riprap may be used in place of the concrete apron.

**DITCH PROTECTION:** Provide a 150' [50 m] length of ditch erosion protection as shown. Installation and payment for ditch erosion protection shall comply with CMS 670.

**BASINS IN SAG:** When in a sag, omit the earth dike and longitudinal slope of the grate, and provide concrete apron and ditch protection on each side of the basin.

**PAYMENT:** The concrete apron with cutoff wall or grouted riprap and dike shall be considered incidental to **Item 604 - Catch Basin, No. 5**. However, the apron is not required when **Item 604 - Catch Basin, No. 5, Without Apron** is specified.

When itemized separately, payment for **Item 601 Riprap** using 6" Reinforced Concrete Slab shall include the cost of the cutoff wall.